

STIC Biotechnology Systems Branch

CRF Problem Report

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number: 10/568,414
Filing Date: 12/14/06
Date Processed by STIC: 3/14/07

STIC Contact: **Mark Spencer**; Telephone: 571-272-2510; Fax: 571-273-0221

Nature of CRF Problem:

- ☐ (circle one) Damaged or Unreadable (for Unreadable, see attached)
☐ Blank (no files on CRF) (see attached)
☐ Empty file (filename present, but no bytes in file) (see attached)
☐ Wrong file saved to CRF (invention title, docket number, or applicant(s) do not match those in official application) (see attached)
☐ Not saved in ASCII text
☐ Sequence Listing was embedded in the file. According to Sequence Rules, submitted file should **only** be the Sequence Listing.
☒ Did not contain a Sequence Listing. (see attached sample)
☐ Other: _____

**PLEASE USE THE CHECKER VERSION 4.3.1 PROGRAM TO REDUCE ERRORS.
SEE BELOW FOR ADDRESS:**

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 08/30/05

10/568,4/4

(Sample of submitted file)

SEQUENCE LISTING

LOCUS AY792511 7584 bp mRNA linear PRI 15-NOV-2004
 DEFINITION Homo sapiens leucine-rich repeat kinase 2 (LRRK2) mRNA, complete cds.
 ACCESSION AY792511
 VERSION AY792511.1 GI:55740397
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 7584)
 AUTHORS Zimprich,A., Biskup,S., Leitner,P., Lichtner,P., Farrer,M., Lincoln,S., Kachergus,J., Hulihan,M., Uitti,R.J., Calne,D.B., Stoessl,J., Pfeiffer,R.F., Patenge,N., Carballo,I., Vieregge,P., Asmus,F., Mueller-Myhsok,B., Meitinger,T., Strom,T.M., Wszolek,Z. and Gasser,T.
 TITLE Mutations in LRRK2 Cause Autosomal-Dominant Parkinsonism with Pleomorphic Pathology
 JOURNAL Neuron 44 (4), 601-607 (2004)
 PUBMED 15541309
 REFERENCE 2 (bases 1 to 7584)
 AUTHORS Zimprich,A., Biskup,S. and Strom,T.M.
 TITLE Direct Submission
 JOURNAL Submitted (22-OCT-2004) Institute of Human Genetics, Technical University and GSF Research Center, Ingolstaedter Landstr. 1, Muenchen/Neuherberg 85764, Germany
 FEATURES
 source Location/Qualifiers
 1..7584
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /chromosome="12"
 /map="12q12"
 /tissue_type="brain"
 /dev_stage="adult"
 gene 1..7584
 /gene="LRRK2"
 CDS 1..7584
 /gene="LRRK2"
 /codon_start=1
 /product="leucine-rich repeat kinase 2"
 /protein_id="AAV63975.1"
 /db_xref="GI:55740398"

SEQUENCE NO 1

/translation="MASGSCQGCEEDEETLKKLIVRLNNVQEGKQIETLVQILEDLLV
 FTYSEHASKLFQGKNIHVPLLIIVLDSYMRVASVQQVGWSLLCKLIEVCPGTMQSLMGP
 QDVGNDWEVLGVHQLILKMLTVHNASVNLVIGLKTLDLLLTSGKITLLILDEESDIF
 MLIFDAMHSFPANDEVQKLGCKALHVLFEVSEEQLTEFVENKDYMILLSASTNFKDE
 EEIVLHVLHCLHSLAIPCNNVEVLMSGNVRCYNIVVEAMKAFPMSERIQEVSCCLLHR
 LTLGNFFNIIVLNEVHEFVVKAVQQYPENAALQISALSCLALLTETIFLNQDLEEKNE
 NQENDDEGEEDKLFWEACYKALTWHRKNKHVQEAACWALNNLLMYQNSLHEKIGDED
 GHFPAHREVMLSMLMHSSSKEVFQASANALSTLLEQNVNFRKILLSKGIHLNVLELMQ

See Sample Sequence listing on
 next page.

Sample Sequence Listing

①

<110> Smith, John; Smithgene Inc.

<120> Example of a Sequence Listing

<130> 01-00001

<140> PCT/EP98/00001
<141> 1998-12-31

<150> US 08/999,999
<151> 1997-10-15

<160> 4

<170> PatentIn version 2.0

<210> 1
<211> 389
<212> DNA
<213> Paramecium sp.

<220>
<221> CDS
<222> (279)...(389)

<300>
<301> Doe, Richard
<302> Isolation and Characterization of a Gene Encoding a
Protease from Paramecium sp.
<303> Journal of Genes
<304> 1
<305> 4
<306> 1-7
<307> 1988-06-31
<308> 123456
<309> 1988-06-31

<400> 1
agctgtagtc attcctgtgt cctctttctct ctgggcttct caccctgcta atcagatctc 60
agggagagtg tcttgaccct cctctgcctt tgcagcttca caggcaggca ggcaggcagc 120
tgatgtggca attgctggca gtgccacagg cttttcagcc aggcttaggg tgggttcgcg 180
cgcggcgcg 1988-06-31 123456 1988-06-31 1
cgcggcgcg cggccctct cgcgctctc tcgcgctct ctctcgctct cctctcgctc 240

ggacctgatt aggtgagcag gaggaggggg cagtttagc atg gtt tca atg ttc agc 296
Met Val Ser Met Phe Ser
1 5

ttg tct ttc aaa tgg cct gga ttt tgt ttg ttt gtt tgt ttg ttc caa 344
Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu Phe Val Cys Leu Phe Gln
10 15 20

tgt ccc aaa gtc ctc ccc tgt cac tca tca ctg cag ccg aat ctt 389
Cys Pro Lys Val Leu Pro Cys His Ser Ser Leu Gln Pro Asn Leu
25 30 35

<210> 2
<211> 37
<212> PRT
<213> Paramecium sp.

<400> 2
Met Val Ser Met Phe Ser Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu
1 5 10 15

Phe Val Cys Leu Phe Gln Cys Pro Lys Val Leu Pro Cys His Ser Ser
20 25 30

Leu Gln Pro Asn Leu
35

<210> 3
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Designed peptide based on size and polarity to act as a linker between the alpha and beta chains of Protein XYZ.

<400> 3
Met Val Asn Leu Glu Pro Met His Thr Glu Ile
1 5 10

<210> 4
<400> 4
000